

STATEMENT

OF

WORK

(SOW)

**FOR THE IROAN OF
POWER UNIT, FRONT, 12 ½ T 4x4,
LOGISTICS VEHICLE SYSTEM
MK-48**

NSN 2320-01-177-5167

MK-48

CONTROL NR: SOW-04-CSLE-08780A-2/1

EFFECTIVE DATE: 1 OCT 2003

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STATEMENT OF WORK FOR THE
Power Unit, Front, 12 1/2 T 4x4, Logistics Vehicle System (LVS) MK-48
Inspect Repair Only As Necessary (IROAN)
NSN 2320-01-177-5167

1.0 SCOPE. This Statement of Work (SOW), along with Rebuild Standard RS 08780A/B-50, with change 1, establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the IROAN effort of the Power Unit, Front, 12 1/2 T 4x4, Logistics Vehicle System (LVS) MK-48, hereafter referred to as the LVS MK48. This document contains requirements to restore the LVS MK48 to Condition Code "A." Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired, or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction." National Stock Number is 2320-01-177-5167.

1.1 Background. IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 APPLICABLE DOCUMENTS. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the issue of Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards.

MIL-STD-129 DoD Standard Practice for Military Markings

2.2 Other Government Documents and Publications. The issues of those documents cited below shall be used.

MI-08780A-25/1 Installation of Blackout Drive Light

MI-08780A-35/2 M16 Rifle Mount Kit

MI-08780A-35/3 Manual Engine Shutdown Cable

MI-11240-35/20 Replacement of the Turn Signal Control Arm

TI-08780A-25/1 Installation of Solargizer

RS 08780A/B-50 Depot Maintenance Manual LVS Power Unit MK48
With change 1

TM-3080-50	Corrosion Prevention Control
ATPD 2241	Vehicles, Wheeled: Preparation for Shipment and Storage of
DOD 4000.25-1-M	MILSTRIP Manual
TM-08780-CD	Logistics Vehicle System
Allison Transmission Service Manual/HT 700 Series	Latest Edition when this SOW is effective
Detroit Diesel 92, Series Service Manual (2 book Set)	Latest Edition when this SOW is effective
A052499001DW	Accumulator
A051399003DW	Replacement of Hydraulic Hose Assemblies
A051399001DW	Elimination of Installing Battery Post Shield
A040599001DW	Articulation Joint Assembly
A033199002DW	Spring and Seat Assembly
A033199003DW	Epoxy Coating of Fuel Tanks
A033199001DW	Epoxy Coating of Air Reservoirs
A030399001DW	Blasting of PEI's Components and sub-assemblies

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance
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2.3 Industry Standards.

ANSI/ISO/ASQC Q9002-1994	Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing
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Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standard for Configuration Management
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Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA. 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179, or <http://www.dodssp.daps.mil>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, (Code 891) Marine Corps Logistics Bases, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd., Suite20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

3.0 REQUIREMENTS.

3.1 General Tasks. In fulfilling the specified requirements, the contractor shall:

a. Provide materials, labor, facilities, repair parts, and missing parts necessary to inspect, diagnose, restore, and test the LVS MK48. Upon completion of IROAN, repaired vehicles shall be Condition Code "A."

b. Provide all tools and test equipment required to test, inspect, and calibrate the LVS MK48.

c. Conduct final on-site testing for witness by an Marine Corps Systems Command (MCSC), (Code CSLE), Albany, Georgia representative.

d. Be responsible for all structural, electrical and mechanical requirements associated with the restoration of the LVS MK48 using TM-08780-CD as guidance.

e. Conduct a rebuild of the LVS MK48 transmission using Allison Transmission Service Manual/HT 700 Series as guidance.

f. Conduct a rebuild of the LVS MK48 transfer.

g. Conduct a rebuild of the LVS MK48 engine using Detroit Diesel 92, Series Service Manual (2 book set).

h. Conduct 100 percent replacement of the LVS MK48 radiator core.

i. Conduct 100 percent replacement of hydraulic hoses.

j. Provide 100 percent replacement of brake linings and brake springs.

k. Conduct 100 percent cab replacement.

l. Be responsible for converting the "Deadman Axle" from the old configuration to the new configuration if not previously converted. The new "Deadman Axle" has a solid shaft installed.

m. Be responsible for all corrosion prevention and control in accordance with the latest TM-3080-50.

3.2 Detailed Tasks. The following tasks describe the different phases for IROAN of the LVS MK48:

3.2.1 Phase I – Pre-Induction. A Pre-Induction Inspection Analysis shall be performed for each LVS MK48 to determine extent of work and parts required in accordance with RS 08780A/B-50, paragraph 2-1.f. If it is determined that the cost of repair exceeds the standard unit price or acquisition/replacement cost as imposed by current Marine Corps directives, or for any other reason, the contractor facility rejects an IROAN candidate, MCSC (Code CSLE), Albany, Georgia representative shall be provided by the contractor facility, a completed copy of the Initial Inspection Checklist located in Table 2-1 of RS 08780A/B-50 to include a cost estimate and a request for specific instructions to MCSC (Code CSLE), Albany, Georgia in accordance with Section 4.0 of this SOW. The intent of this clause is to preclude the arbitrary rejection of “IROAN” candidates by the contractor based solely on cost criteria directed by current Marine Corps directives. MCSC (Code CSLE), Albany Georgia representative retains the right to make the final decision to restore the end item to a serviceable (condition code “A”) asset in the most expeditious manner to enhance Marine Corps readiness. Those items requiring 100 % rebuild in Section 3.0 shall not be subject to a Pre-Induction Inspection Analysis.

3.2.2 Phase II – IROAN. After Pre-Induction Tests and Inspections have been completed, repair of the LVS MK48 shall be accomplished in accordance with this SOW and RS 08780A/B-50 at the contractor’s facility. Deficiencies noted on the Initial Inspection Checklist during Phase I shall be repaired/replaced.

a. Data plate. LVS MK48 shall have an IROAN data plate located on the driver’s side door next to the original manufacturer’s data plate. This plate (refer to Figure 1) shall be constructed of metal and is to be attached after the vehicle has completed the IROAN cycle. The data plate shall contain the following information:

VEH. SER. NO _____ DATE _____
OVERHAULED IN ACCORDANCE WITH INSPECT AND REPAIR ONLY AS
NECESSARY (IROAN) CONTAINED IN SOW-04-CSLE-08780A-2/1 DATED
1 OCTOBER 2003

ODOMETER READING AT TIME OF IROAN _____

CONTRACTOR _____

(Figure 1)

NOTE: Odometers on LVS MK48’s repaired under the provisions of this SOW shall not be reset to zero.

b. Hardware.

(1) Replace broken, unserviceable, and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, etc., in accordance with the LVS MK48 RS 08780A/B-50. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

(4) The contractor is authorized to fabricate "by sample" any item/part for the LVS MK-48, which an Engineering Drawing does not exist or for any other reason the government may approve. The hydraulic hoses and the frame horns are acceptable items for this method at this time.

c. Application of Modification Instruction (MI's) and Technical Instructions (TI). The following MI's shall be applied during this phase of the IROAN process: MI-08780A-25/1, MI-08780A-35/2, MI-11240-35/20 & MI-08780A-35/3 and TI-08780A-25/1.

3.2.3 Phase III – Inspection, Testing, and Acceptance.

a. Inspection, Testing and Acceptance of the LVS MK48 shall be conducted in accordance with the Road Test and Final Inspection Checklist located in Table 2-4 of RS 08780A/B-50. This completed document shall be provided in accordance with Section 4.0 of this SOW. The Road Test shall be conducted under full load (22.5 Tons).

b. The contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance tests shall be held at the contractor's facility. MCSC (Code CSLE), Albany, Georgia representative shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment parts, components, etc., not required for testing.

c. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCSC (Code CSLE), Albany, Georgia representative may require the contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing on all LVS MK48 vehicles under the provisions of this SOW shall be accomplished in accordance with RS 08780A/B-50.

3.2.4 Packaging, Handling, Storage and Transportation (PHS&T).

a. The contractor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items being scheduled for shipment shall be in accordance with the level A requirements of ATPD 2241.

b. Marking for shipment and storage shall be in accordance with MIL-STD-129.

c. The Marine Corps will provide the contractor with the delivery destination of the repaired equipment (Normally for the LVS, delivery will be to stock). The Logistics Management Specialist shall be responsible for arranging for shipment (from stock) to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

3.3 Configuration Control. The contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation. MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.

3.3.1 The following Waivers have been approved for this IROAN effort.

- | | |
|-----------------|--|
| a. A052499001DW | Accumulator |
| b. A051399003DW | Replacement of Hydraulic Hose Assemblies |
| c. A051399001DW | Elimination of Installing Battery Post Shield |
| d. A040599001DW | Articulation Joint Assembly |
| e. A033199002DW | Spring and Seat Assembly |
| f. A033199003DW | Epoxy Coating of Fuel Tanks |
| g. A033199001DW | Epoxy Coating of Air Reservoirs |
| h. A030399001DW | Blasting of PEI's Components, and sub-assemblies |

3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 573-2) will coordinate Government Furnished Equipment/Government Furnished Materiel (GFE)/(GFM) requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. (This can be done by mailing (Materiel Management Department, Management Control Activity (Code 573-2) 814 Radford Blvd., STE 20320, Albany, GA 31704-0320) or faxing (commercial 229-639-5498 or DSN 567-5498) a copy of the DD1348).

3.5 Contractor Furnished Materiel (CFM). The Contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's

decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

3.6 Quality Assurance Provisions. The contractor shall provide and maintain a Quality System that as a minimum adheres to the requirement of ANSI/ISO/ASQC Q9002-1994, Quality System-Model for Quality Assurance in Production, Installation, and Servicing. Performance of the contractor and the quality of work delivered, materiel provided, and documents written shall be subject to review and inspection by MCSC (Code CSLE) Albany, Georgia representative during work performance at any work location. Authorized MCSC (Code CSLE), Albany, Georgia representatives shall be permitted to observe the work/task accomplishment or to conduct inspections during working hours. Inspection by MCSC (Code CSLE) Albany, Georgia representatives, of test plans and materials furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet work requirements which may be disclosed prior to final acceptance. Failure of the contractor to promptly correct deficiencies discovered shall be reason for suspension of acceptance until corrective action has been accomplished. The contractor shall have in place documented procedures and standards for inspection requirements and the contractor's work shall be subject to reviews and inspections for compliance with these procedures and standards by MCSC (Code CSLE) Albany, Georgia representatives. Noncompliance with procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face work termination. Notwithstanding such MCSC (Code CSLE) Albany, Georgia representative inspection, it shall be the contractor's responsibility to ensure that the system meets the performance requirements delineated and addressed in this SOW.

3.7 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC (Code CSLE) Albany, Georgia. The contractor shall, at no additional cost to MCSC, Albany, Georgia, provide the following:

- a. Develop an approach for modification or correction of all deficiencies.
- b. Upon approval of a documented approach, the contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures requirements is demonstrated.

4.0 REPORTS.

4.1 Road Test and Final Inspection Checklist. The contractor shall complete the Road Test and Final Inspection Checklist for each LVS MK48 repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to Commander, MCSC (Code CSLE), Marine Corps Logistics Bases, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, after final acceptance of the LVS MK48.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 1704-0188

The Public reporting burden for this collection of information is authorized to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ Other <u>XXX</u>
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D. SYSTEM/ITEM Power Unit, Front, 12 1/2 T 4x4, LVS MK-48	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No. A001	2. TITLE OF DATA ITEM Request for Deviation (RFD)	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640C	5. CONTRACT REFERENCE Paragraph 3.3	6. REQUIRING OFFICE MARCORLOGBASES (583)
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7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES		
				Draft	FINAL	
					Reg	Repro

16. REMARKS Blk 4: Contractor format is authorized and shall be submitted in .doc and .pdf format. Blk 10 & 12: RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet the prescribed configuration documentation. RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the government. RFDs shall be transmitted via e-mail to the following address: <u>mbmatcomconfigmngmnt@matcom.usmc.mil</u> Distribution Statement A: Approved for public release, distribution is unlimited.	MCSC Alby (CSLE) 0 0 0
	MCLBA (583-1) 0 1 0
15. TOTAL	0 1 0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY: <i>Niam L. Bradley</i>	H. DATE SEP 7 2001	I. APPROVED BY: <i>D. Cooper</i>	J. DATE 13 Sept 01
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